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marked by a symposium of papers of unusual importance on the electron-tube, presented upon invitation of the president of the society. There will also be the usual program of papers contributed by members in general. The Central Association of Science and Mathematics Teachers holds its annual meeting on the same dates, and arrangements are being made for the usual joint session.

The provisional program of special papers which will probably be given on Saturday morning, is as follows:

"Phenomena in pure-tungsten filament electron tubes," Irving Langmuir, The General Electric Company.

"Phenomena in oxide-coated filament tubes," H. B. Arnold, The Western Electric Company.

"The relations of the constants of an electron tube to its physical dimensions," L. A. Hazeltine, Stevens Institute of Technology.

"Theory of action of electron tubes as amplifiers," John M. Miller, Bureau of Standards.

"Theory of action of electron tubes as generators," John H. Morecroft, Columbia University.

"High power transmission sets," W. C. White, The General Electric Company.

"Telephone sets," O. B. Blackwell, American Telephone and Telegraph Company.

Members wishing to present papers at the Chicago meeting are requested to send abstracts ready for publication, to the secretary, before November 15. The secretary expects to send the program to all members before the meeting, but the delays in the mails are so great at present that members should not depend upon the program to determine their attendance.

The next following meeting of the society will be held in St. Louis in the week of December 29-January 3. Members are requested to submit abstracts of papers for this meeting at the earliest possible date, not waiting for further notice.

DAYTON C. MILLER,  
*Secretary*

CASE SCHOOL OF APPLIED SCIENCE,  
CLEVELAND, OHIO

#### THE HISTORY OF SCIENCE AND THE AMERICAN HISTORICAL ASSOCIATION

THE readers of SCIENCE may be interested to learn that at the coming annual meeting

of the American Historical Association a conference will be devoted to the history of science. This is the first time that such a conference has been held, and it is earnestly hoped that many of those who are interested in this promising field may attend the session, whether they are members of the American Historical Association or not. The program, as thus far arranged, comprises papers on the History of Egyptian Medicine by Thomas Wingate Todd, professor of anatomy, Western Reserve University; on the History of Algebra by Louis C. Karpinski, professor of mathematics, University of Michigan; on Peter of Abano, a Medieval Scientist, by Lynn Thorndike, professor of history, Western Reserve University; and on The Problem of the History of Science in the College Curriculum, by Henry Crew, professor of physics, Northwestern University. The conference will take place in the Hollenden Hotel, Cleveland, Ohio, at 10 A.M., Wednesday morning, December 31.

ELBERT J. BENTON

#### THE SECTION OF ZOOLOGY OF THE AMERICAN ASSOCIATION

THE Convocation Week meetings of Section F (Zoology) of The American Association for the Advancement of Science will be held in conjunction with those of the American Society of Zoologists at Washington University, St. Louis, Mo., on December 29, 30 and 31, 1919. As the officers of the American Society of Zoologists are responsible for the program under the rules of the American Association all titles and abstracts of papers should be sent to Professor W. C. Allee, Lake Forest, Illinois. They should be in his hands before December 9. The address of the retiring vice-president of Section F, Professor William Patten, will be given at the annual dinner on Wednesday evening, December 31. The subject of the address will be "The message of the biologist." H. V. NEAL,

*Secretary of Section F*

TUFTS COLLEGE, MASS.

#### THE DEFLECTION OF LIGHT BY GRAVITATION AND THE THEORY OF RELATIVITY

A JOINT meeting of the Royal Society and the Royal Astronomical Society was held on